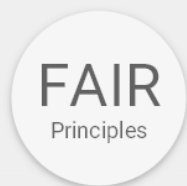# GeoPlatform in 2022

Making Federal Geodata **F**indable, **A**ccessible, **I**nteroperable and **R**eusable

What is GeoPlatform?

In 2020, Geoplatform.gov, operating under the authority of the Geospatial Data Act of 2018, transformed to establish its primary role which is to provide the single place to find and get the most up to date version of all National Geospatial Data Assets (NGDA) products and services in various open formats and web services.

GeoPlatform supports discovering and registering geospatial data assets with special emphasis on 177 National Geospatial Data Assets (NGDAs) across 18 data themes as guided by the Federal Geographic Data Committee (FGDC).
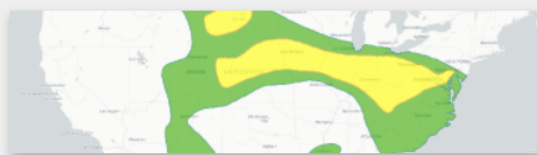
Supplemental Guidance Appendix E

FAIR
Principles

The government solution charged with making all Geospatial Data Assets published findable, accessible, interoperable, and reusable!

FAIR Data Principles

GeoPlatform has its own ArcGIS Online (AGOL) organization that integrates with your GeoPlatform Login.gov account. The GeoPlatform ArcGIS Online organization accounts provide enhanced web capabilities. Federal partners are able to publish their data as services with no size restrictions.

GeoPlatform.gov
Making Federal Geospatial FAIR

National Geospatial Data Asset Portfolio Themes

In November 2010, the Office of Management and Budget (OMB) released the OMB Circular A-16 Supplemental Guidance. Its primary focus was on geospatial data as a capital asset and providing the foundation for a portfolio management approach to a National Geospatial Data Asset (NGDA) Portfolio. The portfolio consists of National Geospatial Data Asset Themes (NGDA Themes) and their associated National Geospatial Data Asset Datasets (NGDA Datasets).

Address Theme	Geodetic Control	Real Property
Biodiversity and Ecosystems	Geology	Soils
Cadastre	Governmental Units, and Administrative and Statistical Boundaries	Transportation
Climate and Weather	Imagery	Utilities
Cultural Resources	International Boundaries	Water - Inland
Elevation	Land Use - Land Cover	Water - Oceans and Coasts

Making Federal GeoSpatial FAIR

GeoPlatform is making Federal Geodata Findable, Accessible, Interoperable and Reusable

GeoPlatform.gov improves geospatial data discovery, access, and quality for harvested datasets:

- Harvests Data.gov for quality geospatial datasets to include in the GeoPlatform.gov catalog
- Integrates FGDC NGDA portfolio tracking to improve coordination
- Enhances discovery in-the-wild with search engine optimization (SEO) tagging
- Links existing data resources with one-click downloads or open-in select applications
- Provides FAIR Insights Advisor reviews to assist and guide data suppliers and metadata creators
- Monthly release notes are accessible with updates on new features, user experience, new data/metadata flows, and hardening/security compliance.

GeoPlatform.gov team works with data suppliers and metadata creators to increase FAIR data qualities:

Nightly, Geoplatform.gov pulls in available NGDA and key Federal feature data into a "feature registry". This automatically generates derivatives - e.g. Product (SHP, KML, GeoPackage, GeoJSON); Tiles (Vector Tiles, Raster Tiles); Service (OGC WMS, WFS); Metadata Quality via FAIR Insights Advisor

GeoPlatform.gov generates value-add derivatives for harvested NGDAs data sources:

- Assist on understanding FAIR Insights and supports the Knowledge Base for help and guidance
- Improve FAIR Insights and knowledge based on feedback and trends in data quality
- Help navigate metadata challenges with expert support - e.g. ISO, CSDGM, DCAT, DCAT2, etc.
- Assist with metadata publishing to Data.gov and into GeoPlatform.gov
- Assist Agency Esri ArcGIS Online (AGOL) managers with implementing the new 'one-time' Hub template setup to publish ISO metadata embedded in DCAT.
- Agencies worked with: USDA, DoC, USACE, DoEd, DOE, HHS, DHS, DOI, DoJ, DoS, Treas, DOT, and GSA.
- Supports innovative use and tools by developers on FOSS4G concepts employed on GeoPlatform. For example, GeoPlatform collaborated with the WhiteHouse and 18F on the Environmental Justice 40 on the Climate/Economic Screening Tool - https:// screeningtool.geoplatform.gov/

GeoPlatform Upcoming Roadmap Highlights

- More data In as a result of outreach and FAIR Insights improvements
- Feeds into the GeoPlatform ArcGIS Online & Hub Communities - fewer clicks for Esri users
- Search improvements (geographic extents, search weighting, improved facets)
- Additional OGC OpenAPI support
- Adding STAC (SpatioTemporal Asset Catalog) Collections support and discovery
- Improved statistics on data use, discovery, and access

Concept in Work: Semantic Feature Generation

The GeoPlatform.gov feature registry will feed into the semantic web to support such integrations as: schema.org tagging, provide to Data Commons, support feature sources discovery in-the-wild, support data science ontological extension and add-ons, allow feature change subscription, support for major consumers and map vendors to subscribe to feature changes to allow for timely ingestion and updates from authoritative sources.